PRELIMINARY COMMUNICATION

PARTICIPATION OF ENDOGENOUS CORTICOSTEROIDS IN INFLAMMATORY RESPONSE IN TYPE 2 STREPTOZOTOCIN DIABETIC RATS

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The inflammatory response is decreased in diabetic animals. After adrenals removal this impaired response in type 2 diabetic rats evaluated by pleurisy and vascular permeability tests was restored. Our studies demonstrate that endogenous corticosteroids play a partial role in the impaired inflammatory response in type 2 streptozotocin diabetic rats.

Key words: corticosteroids, NIDDM, type 2 diabetes, inflammation

During early stage of the inflammatory response, there is a stimulation of hypothalamus-pituitary-adrenal axis by factors produced at inflamed area promoting an increase in corticosteroid secretion. Abnormal cortisol secretion and circulating levels in hyperglycemic patients suggest that this hormone plays a role in the pathogenesis of type 2 diabetes [1]. Insulin is involved in the increase in the vascular permeability to plasma proteins, while the corticosteroids at high concentra-